

at Goddard Space Flight Center

Final Presentations and Graduation Ceremony

Friday, August 8, 2003

Building 26, Room 205: 8:00 a.m. – 4:00 p.m. NASA GSFC, Greenbelt, MD 20771

08:00-08:05 **Opening and Welcome Address:**

Dr. Vidgor Teplitz, Chief, University Programs, NASA

Goddard Space Flight Center

Material Science

08:05-08:17 **Erik Dambach** – Dartmouth College, Engineering Sciences

"Polymeric Fasteners Feasibility Study" Principal Investigator: Scott Hull, Code 591

08:19-08:31 **Meghan B. Baker** – University of Maryland, Aerospace

Engineering

"Effects of Aging on Films Used for Blanket Materials" Principal Investigator: Michael Viens, Code 541

08:33-08:45 **George Boyarko** – Case Western Reserve University,

Mechanical and Aerospace Engineering

"Investigating Potential Materials for Use in Thermal

Interfaces on the Hubble Space Telescope" Principal Investigator: Ben Reed, Code 541

Mission Planning and Systems Analysis

08:47-09:59 **Joni Jorgensen** – University of Kansas, Engineering Physics

"Solar Probe Project"

Principal Investigator: Dr. Ed Sittler, Code 692

09:01-09:13 **Guillaume Collange** – Ecole Nationale Supérieure de

l'Aéronautique et de l'Espace (SUPAERO)

"Formation Flying Mission Design and Analysis" Principal Investigator: Jesse A Leitner, Code 591

09:15-09:27 **Kevin Langone** – Virginia Polytechnic Institute and State

University, Aerospace Engineering

"Ariane Launch Window for Orbit Insertion of James Webb

Space Telescope"

Principal Investigator: Mark Beckman, Code 595

Instrumentation and Testing

09:29-09:41 **Brett Bethke** – Massachusetts Institute of Technology,

Aerospace Engineering and Physics

"Flux Transformers for Magnetic Calorimeter X-ray Detector

Arrays"

Principal Investigator: Dr. Thomas Stevenson, Code 553

Co-Investigator: Dr. Simon Bandler, Code 662

09:41-09:51 ~**Break**~

09:51-10:03	Christina Pelzer – Florida Institute of Technology, Space	Space Sciences			
	Sciences "Single Electron Transistors as Multiplexers for Large Format Semiconducting Bolometer Arrays" Principal Investigator: Harvey Moseley, Code 685	12:30-12:42	Kelly Kolb – Villanova University, Astronomy and Astrophysics "A Model for Near-Surface Ground Water on Mars" Principal Investigator: Dr. Herbert Frey; Code 921		
10:05-10:17	La Vida Cooper – Johns Hopkins University, Electrical Engineering and College of Notre Dame of Maryland, Physics "Hyperspectral Sensor for Image-Based Wavefront Sensing" Principal Investigator: Bruce Dean, Code 551	12:44-12:56	Darin Ragozzine – Harvard University, Physics and Astronomy & Astrophysics "Detecting Interstellar Pickup Ions in the Solar Wind Using Cassini's Plasma Spectrometer"		
10:19-10:31	Seth Koterba – Concordia College, Physics, Mathematics "An Interferometer for Low Uncertainty Vector Metrology" <u>Principal Investigator</u> : Ronald Toland, Code 551	Mechanical	<u>Principal Investigator</u> : Dr. Ed Sittler, Code 692		
10:33-10:45	Julia Sakamoto – University of Hawaii at Manoa, Physics "Cryogenic Polarization Chopper for Millimeter and Sub-Millimeter Waves" Principal Investigator: Jay Chervenak, Code 553 Co-Investigator: Dominic Benford, Code 685	12:58-13:10			
10:47-10:59	David Thompson – Pittsburg State University, Engineering Technology "Multi-tuned Active/Passive Antenna Element Characterization" Principal Investigator: Larry Hilliard, Code 555 Co-Investigator: Ross Henry, Code 551	13:02-13:14			
Fouth Coinna		13:16-13:28			
Earth Sciences			<u>i imcipai mvesti</u>	gator. Chuck Zakizws	KI, Code 397
11:01-11:13	Julielynn Wong – Queens University, M.D. "Utilizing Geographic Information Systems and NASA's Remote Sensing Capabilities for Malaria Surveillance" Principal Investigator: Dr. Nancy Maynard, Code 900	International Space University			
		13:30-13:42	Julielynn Wong – Queens University, M.D. "NASA Academy / ISU Relations: Past, Present and Future"		
11:15-11:27	Miguel Román – University of Puerto Rico at Mayagüez, Electrical Engineering "Modeling Urban Land-Atmosphere Interactions" Principal Investigator: Christa Peters-Lidard, Code 974 Co-Investigator: Dr. Menglin Jin, U. of Maryland	13:42-14:00	~Break~		
		Group Project Presentation			
		14:00-14:40	"Stellar Imager I	Pathfinder Mission"	
Special Address			Science: Darin Ragozzine	Engineering: David Thompson	Mission Design and Integration:
11:30-11:45	Keynote Speaker: Mr. Al V. Diaz, Director, NASA Goddard Space Flight Center		Kelly Kolb Julia Sakamoto	Brett Bethke George Boyarko	<i>Meghan B. Baker</i> La Vida Cooper
11:45-12:00	Photo Opportunity: Mr. Al V. Diaz and 2003 NASA Academy		Sally House Alyssa Rzeszutko Joni Jorgensen Christina Pelzer Jeffrey Kujawa Erik Dambach Seth Koterba Miguel Román Guillaume Collange		Erik Dambach
12:00-12:30	~Lunch~ Served in Building 26, Room 205		Kevin Langone		

14:40-14:45 **~Break~**

Graduation Ceremony

14:45-15:15	Presentation of Plaques: Dr. Vidgor Teplitz, Program Director Dr. Richard Fahey, Program Co-Director Mr. Dave Rosage, Program Manager Dr. Irina Nelson, Academic Dean Sara Jean Maclellan, Operations Manager Paul Gosling, Logistics Manager
	Julielynn Wong, Program Support and ISU Liaison Johnny Erickson, Program and IT Support
15:15-15:20	2003 Goddard Research Award Dr. Richard Fahey, Program Co-Director
15:20-15:25	2003 Soffen Leadership Award Dr. Richard Fahey, Program Co-Director
15:25-15:45	Induction into the NAAA: Laura Burns, Alumni Coordinator
15:45-15:55	Farewell Address: David Thompson, 2003 NASA Academy Graduate
15:55-16:00	Closing Remarks: Dr. Vidgor Teplitz, Program Director